

### **Kitchen Laboratory Experiment #3**

#### **Growing Baking Soda Stalactites**

##### **Materials needed:**

- String
- Two glasses, jars, or small yogurt containers of equal size
- Plate or tray
- Two paper clips
- 1 cup water
- ½ cup Baking Soda
- Sauce pan
- Stovetop

##### **Procedure**

1. Tie one paper clip to one end of the yarn and the other paper clip to the other end.
2. Clean and place the glasses or jars on the plate or tray (you can also use a cookie sheet if your family will not need it for this week).
3. Place sauce pan on stove.
4. Pour water into sauce pan and turn on stove.
5. As water becomes hotter, add a little baking soda at a time. What do you experience?
6. Stir the solution.
7. After water boils, turn off stove. Continue to add baking soda until it will not dissolve into the water any more.
8. Holding both paper clips, carefully dip the yarn in the hot water/baking soda solution so that it is wet. Put down on the plate/tray/cookie sheet.
9. Pour hot liquid into both glasses/jars, filling  $\frac{3}{4}$  of the way.
10. Pick up yarn/paper clips. Place one paper clip in one jar/glass and the other in the other. If your yarn sags between, this is okay. If your yarn is tight, that is okay.
11. If you have extra solution that did not fit into your jars/glasses, pour it down the drain.
12. Wash the sauce pan and wipe up any liquid that may have splashed on your counters. A good scientist leaves the lab clean for future experiments!
13. Once solution has cooled, move to a safe place in your home.
14. Observe every morning and every evening, taking notes on what you see.
15. Send your notes to Ms. Fast on Friday.